	Application No.	Applicant(s)
	10/601 175	RIDGEWAY ET AL.
Notice of Allowability	10/601,175 Examiner	Art Unit
	ENAM AHMED	2112
- The MAILING DATE of this communication apportunity approximately allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm IGHTS. This application is	in this application. If not included nunication will be mailed in due course. THIS
1. This communication is responsive to 11/18/08.	•	
2. X The allowed claim(s) is/are 1-17.	٠	*
 3. ☐ Acknowledgment is made of a claim for foreign priority up a) ☐ All b) ☐ Some* c) ☐ None of the: 	nder 35 U.S.C. § 119(a)-(d) or (f).
 Certified copies of the priority documents have 	e been received.	
Certified copies of the priority documents have		
Copies of the certified copies of the priority do	cuments have been receiv	ed in this national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		• 4
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to find this application.	le a reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv	nitted. Note the attached Exes reason(s) why the oath	KAMINER'S AMENDMENT or NOTICE OF or declaration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") mur	st be submitted.	
(a) ☐ including changes required by the Notice of Draftsper	son's Patent Drawing Review	ew (PTO-948) attached
1) hereto or 2) to Paper No./Mail Date	.•	
(b) including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment	or in the Office action of
Identifying Indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in	l.84(c)) should be written on the header according to 37 C	the drawings in the front (not the back) of CFR 1.121(d).
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT 	osit of BIOLOGICAL MATERIATION OF B	TERIAL must be submitted. Note the IOLOGICAL MATERIAL.
•		
		•
	•	
		•
Attachment(s)	.	
1. Notice of References Cited (PTO-892)		Informal Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413), o./Mail Date
Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. X Examiner	s Amendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. X Examiner	s Statement of Reasons for Allowance
or crondition material	9. Other	_

Art Unit: 2112

DETAILED ACTION

Examiner Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR
 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jeffrey M. Andersen on November 21, 2008.

Claims

Cancel claims 2 and 21-24.

Amendments to the Claims:

1. (Currently Amended) A circuit for performing n-bit cyclic redundancy check (CRC) calculations, comprising:

a plurality of CRC calculation blocks, each of the plurality of CRC calculation blocks

performing a CRC calculation in parallel to yield a plurality of CRC calculation values of an n
bit CRC result;

a switch configured for selectively passing one CRC calculation value included in the plurality of CRC calculation values, the passed CRC calculation value being calculated by one of said plurality of CRC calculation blocks; and

a CRC register for latching the one of the CRC calculation values selectively passed by the switch, wherein the latched CRC calculation value is inverted. Art Unit: 2112

14. (Currently Amended) A method for calculating a cyclic redundancy check (CRC) value with a variable width data input, comprising:

Inputting a variable width data word;

Calculating a first CRC value having a first number of bits using the variable width data word;

Calculating a second CRC value having a second number of bits using the variable width data word, wherein the first and second CRC value calculations occur in parallel; and

Selecting one of: the first and the second CRC value as the CRC output value

wherein the selection of one of: the first value and the second CRC value is accomplished by a switch selection signal, wherein the switch selection signal is a multi-bit value, wherein the multi-bit value is decoded to provide a four bit value to a mux that performs the selection of the one of the first and second CRC values, wherein a CRC output value is latched after being output by the mux and the latched CRC output value is feedback, wherein the CRC output value is inverted.

Response to Arguments

Applicant's argument filed on 11/18/08 has been fully considered and they are found persuasive.

Reasons for allowance

Claims 1, 3-17 and 19 are allowable over the prior art. The following is an Examiner's statement of reasons for the indication of allowable subject matter: the prior art is exemplified by Cawley (U.S. Patent No. 5,361,334).

As per claim 1:

Application/Control Number: 10/601,175

Art Unit: 2112

Cawley discloses packets which pass from router to router and how they can be corrupted. A check value or crc value is appended to the packet. The packet is checked and if the. packet is found corrupted, then a receiving router would switch the packet into it's destined cpu, fpu or memory to check the crc and discard packets which have been corrupted. The router contains a register or group of registers from which it can calculate, or look up, the correct part for any given destination, and those registers must be set to different values for each router.

However, Cawley does not teach nor fairly suggest the foregoing limitations "a switch configured for selectively passing one CRC calculation value included in the plurality of CRC calculation values, the passed CRC calculation value being calculated by one of said plurality of CRC calculation blocks; and a CRC register for latching the one of the CRC calculation values selectively passed by the switch, wherein the latched CRC calculation value is inverted.

Dependent claims 3-13 depend from allowable independent claim and inherently include limitations therein and therefore are allowed as well.

Independent claim 14 includes similar limitations of independent claim 1 and therefore is allowed for similar reasons.

Dependent claims 15-17 and 19 depend from allowable independent claim and inherently include limitations therein and therefore are allowed as well.

Conclusion

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance." 110 00 00

Application/Control Number: 10/601,175

Art Unit: 2112

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Enam Ahmed whose telephone number is 571-270-1729. The examiner can normally be reached on Mon-Fri from 8:30 A.M. to 5:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jacques Louis-Jacques, can be reached on 571-272-6962.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

EΑ

12/4/08

/Esaw T Abraham/

Primary Examiner, Art Unit 2112

Application/Control Number: 10/601,175

Art Unit: 2112

Page 6